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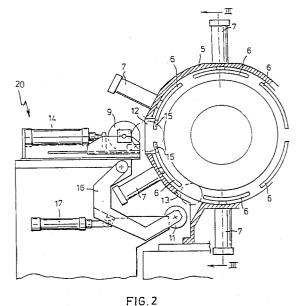
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- Apparatus and method for manufacturing a green radial tyre and transfer unit for use in such an apparatus.
- (57) Apparatus and method for manufacturing a green radial pneumatic tyre. The apparatus is provided with a construction drum (2) for a tread with a belt for the radial pneumatic tyre, with a carcass drum (4) for carrying a carcass with beads and side walls for the radial pneumatic tyre and with an annular transfer unit (5) movable along a path (8) for transferring the annular tread/bead assembly to the carcass drum. The transfer unit is provided with a passage part for surrounding the drums, and with a pressure roller unit with at least one roller (9) rolling the belt/tread assembly against the carcass with the beads and the side walls. The passage part is provided with a gate (29) for radially admitting each roller (9) to the carcass with beads and side walls. the pressure roller unit being provided with means (14) for displacing each roller radially through the gate. Each gate of the passage part as seen in a direction parallel to the direction of movement of the passage part near the carcass drum is provided with a passage opening for each roll. In the method during the pressing of the tread/belt assembly onto the carcass with the beads and the side walls the transfer unit is transferred to a distance from the carcass drum.



DOCUMENTS CONSIDERED TO BE RELEVANT			r	CI ACCIDICATION OF THE
Category	Citation of document with indica of relevant passag		Relevant to claim	CLASSIFICATION OF TH APPLICATION (Int.Cl.5)
X	PATENT ABSTRACTS OF JAvol. 7 no. 63 (M-200) 1983	[1208] ,16 March	1,5,8	B29D30/20
A	& JP-A-57 208231 (YOH 21 December 1982,	(OHAMA GOMU K. K.)	2	
	* abstract; figures 1	-5 * 		
Y A	US-A-3 976 532 (C. K.	•	8 1,2,4,9	
	* the whole document '	- -		
Y A	* the whole document	·	8 2,3,7	
			1 4 7	
A	US-A-4 667 574 (G. FEI & LU-A-86 110 (GOODYE/ COMP.) 24 March 1986 * the whole document '	AR TÍRE & RUBBER	1,4-7	
D,A	EP-A-0 223 317 (VMI El	 PE HOLLAND)	2,3	TECHNICAL FIELDS SEARCHED (Int.Cl.5) B29D
	The present search report has been of	drawn up for all claims Date of completion of the search		Exampl mer
		24 July 1995	Fre	gosi, A
X : part Y : part doct A : tech	CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with another ument of the same category inological background	E : earlier paten after the filir D : document cit L : document cit	ted in the application ed for other reasons	ished on, or
O: non	-written disclosure rmediate document	& : member of ti document	he same patent famil	y, corresponding